Applicant: Federal-Mogul Friction Products GmbH

Our reference: 11437 WO (KG/DM)

Patent Claims

1. Cylinder lift detection device for compressed air disc brakes, with a sensor (2) for the detection of the cylinder lift, a power source to supply the sensor with power, an activation device (4) connected between the sensor (2) and the power source, with which the sensor can be switched on, and a function indicator (6) that is connected to the sensor (2), which indicates the proper or defective condition of the brake,
characterized by the fact that
the sensor (2) is designed as a continuous sensor, and that the function indicator is provided as a continuous indicator (12), which is connected to the sensor (2), and continuously indicates the lift of the cylinder.

2. Cylinder lift detection device as claimed in Claim 1, with a casing (8), in which the sensor (2) is connected to the housing (8) by a cable (10).

3. Cylinder lift detection device as claimed in one of Claims 1 or 2, characterized by the fact that the sensor (2) is a pressure sensor.

4. Cylinder lift detection device as claimed in one of Claims 1 or 2, characterized by the fact that the sensor (2) works by ultrasound.

5. Cylinder lift detection device as claimed in one of the above claims, characterized by the fact that the sensor (2) is attached to a venting hole of the cylinder.

6. Cylinder lift detection device as claimed in one of the above claims, characterized by the fact that the indicator (12) is provided as an LED segment indicator, such that the indicator shows the lift in millimeters.

7. Cylinder lift detection device as claimed in one of Claims 1 to 5, characterized by the fact that the indicator (12) is provided as a dial or graduated indicator, such that the indicator shows the lift in millimeters.

8. Cylinder lift detection device as claimed in one of Claims 2 to 7, characterized by the fact that an electronic processing unit is provided in the casing (8), which is connected with the cable (10), the indicator (12) and the activation device (4), such that the electronic processing device provides an evaluation of the signal originating in the sensor (2) for the indicator (12).